





MD 173 bridge over Stoney Creek

- Originally constructed 1947
- Last major work 1986
- Double leaf bascule drawspan
- 18,000 vehicles per day



Ft. Smallwood Road over Stoney Creek

How busy is the Stoney Creek drawbridge?

- 1,000 openings per year
- Compare to:
 - 8,000 for MD 795 at Cambridge Creek
 - 10,000 for MD 33 at Tilghman Island



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What kind of work?

- Cleaning and Painting of the entire bridge including the draw span.
- Repairs to the steel beams and steel supports in the draw span
- Minor concrete repairs
- Replacement of the Fence



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Work detail

from contract bid document

- Clean and paint entire bridge including drawspan
- Repair of sidewalk bearing pedestals and sidewalk brackets
- Replacement of the channel diaphragm
- Replace compression joint seals with pourable silicone joint seals
- Installation of steel plates at Trunnion Tower
- Replace timber bascule stops in-kind
- Installation of steel cap plate at Trunnion Tower
- Repair holes in Bascule Girders



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Work detail

from contract bid document

- Replacement of Ladder Bearing Angles
- Installation of steel plates at Bascule Girders
- Replace Bascule Floorbeam Stiffener in-kind
- Replace Bascule Girder Stiffener in-kind
- Installation of steel plates at Mid-Level Gusset Plate
- Installation of steel plates at Top-Level Gusset Plate
- Repair of machine room flooring
- Drainage Trough for existing bridge
- Installation of new Chain Link Safety Fence



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Trunnion Tower Gusset



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Diaphragm



**Ft. Smallwood Road over Stoney Creek
Deck Fence**



Ft. Smallwood Road over Stoney Creek Sidewalk Support



Ft. Smallwood Road over Stoney Creek
Upper Trunnion Tower

Temporary closure of MD 173

- Required for drawspan work
- Detour using Edwin Raynor Blvd, MD 177 and Solley Rd
- Closure period July 8 – August 12



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Why is a closure necessary?

- Access to certain bridge components is only possible with drawspan raised
 - Drawspan ends
 - Machine room components (e.g., counterweights)
- Bridge closed in the “down” position restricts marine traffic with no detour
 - Channel boating traffic cannot be restricted per United States Coast Guard



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It's the busy season here...

Why close the bridge NOW?

- Coating and repair materials and processes are temperature and moisture sensitive
- Very difficult to heat drawspan in colder months
- Closure needed when public schools are out
- Work is not “optional”



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Why are we just hearing about this?

- **Awaiting contractor schedule**
 - SHA needs work schedule to communicate *accurate* information
 - Draft work schedule just received in April



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Cambridge Creek – Similar Structure

Cambridge Creek

- 8,000 openings per year (8x more than MD 173)
- 75 years old
- **Three month closure and detour**
- Similar business impacts
- Similar paint and machine room work
- Included approach span overlay



Cambridge Creek - 2010



Road Closure Notice

Maryland Avenue at Cambridge Creek

August 1 - October 31, 2010

WHAT:

Closure of MD 795 (Maryland Avenue) at the Cambridge Creek drawbridge in Cambridge.

WHEN:

August 1 - October 31, 2010

WHY:

Contractors will clean and paint the bridge structure and perform repairs.

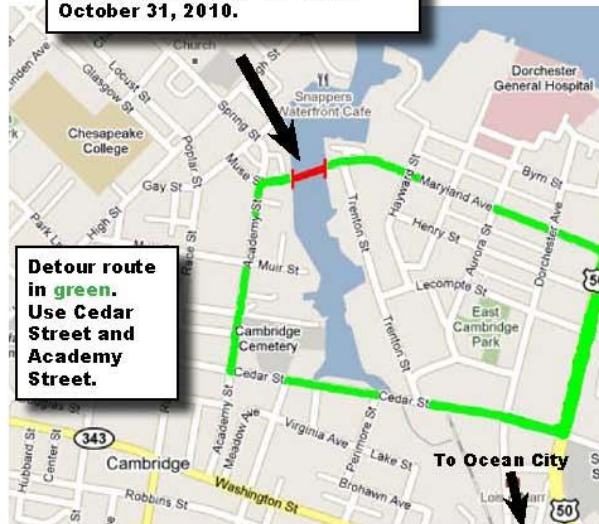
VEHICLES AND PEDESTRIANS:

Detour signs will be posted. Motorists who wish to access points west of the drawbridge from U.S. 50 should use Cedar Street instead of Maryland Avenue.

BOATS:

To allow crews to paint underneath the drawbridge, it will remain in the raised position for most of the work period. Marine traffic should be unaffected by this work.

Maryland Avenue drawbridge
CLOSED to vehicle and pedestrian traffic from August 1 through October 31, 2010.



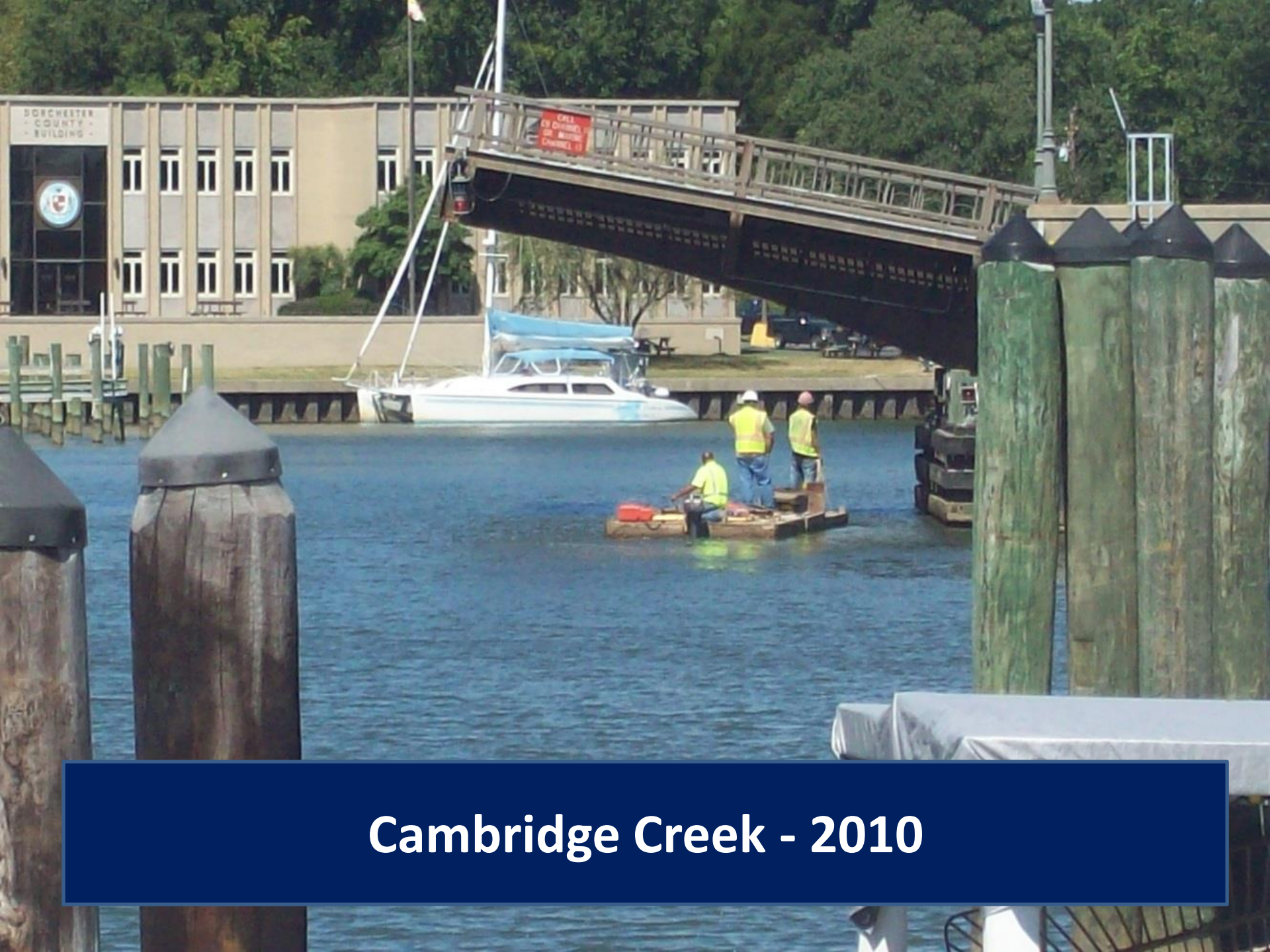
Detour route in green. Use Cedar Street and Academy Street.

For More Information:

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For the latest Maryland traffic information visit
www.chart.md.gov

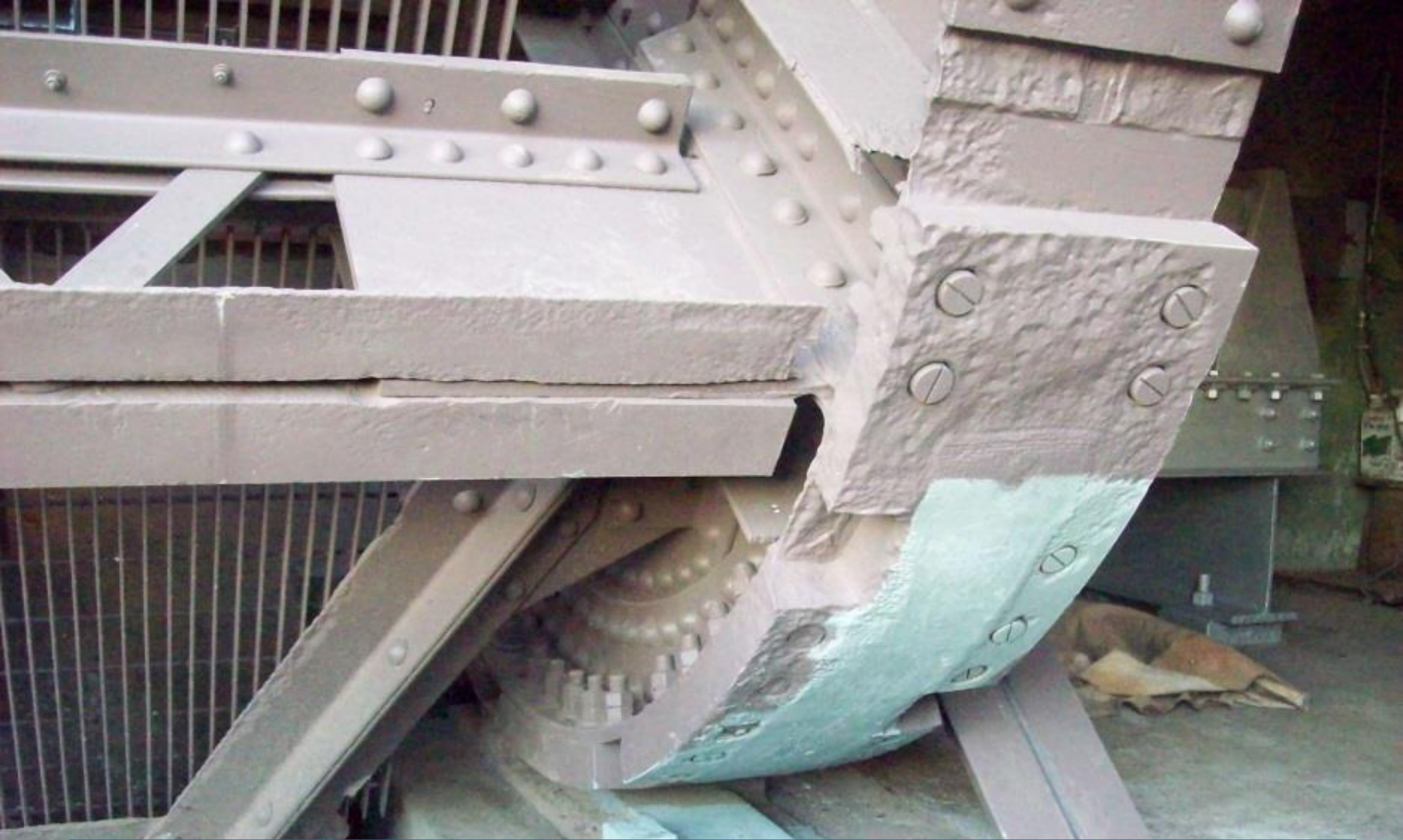




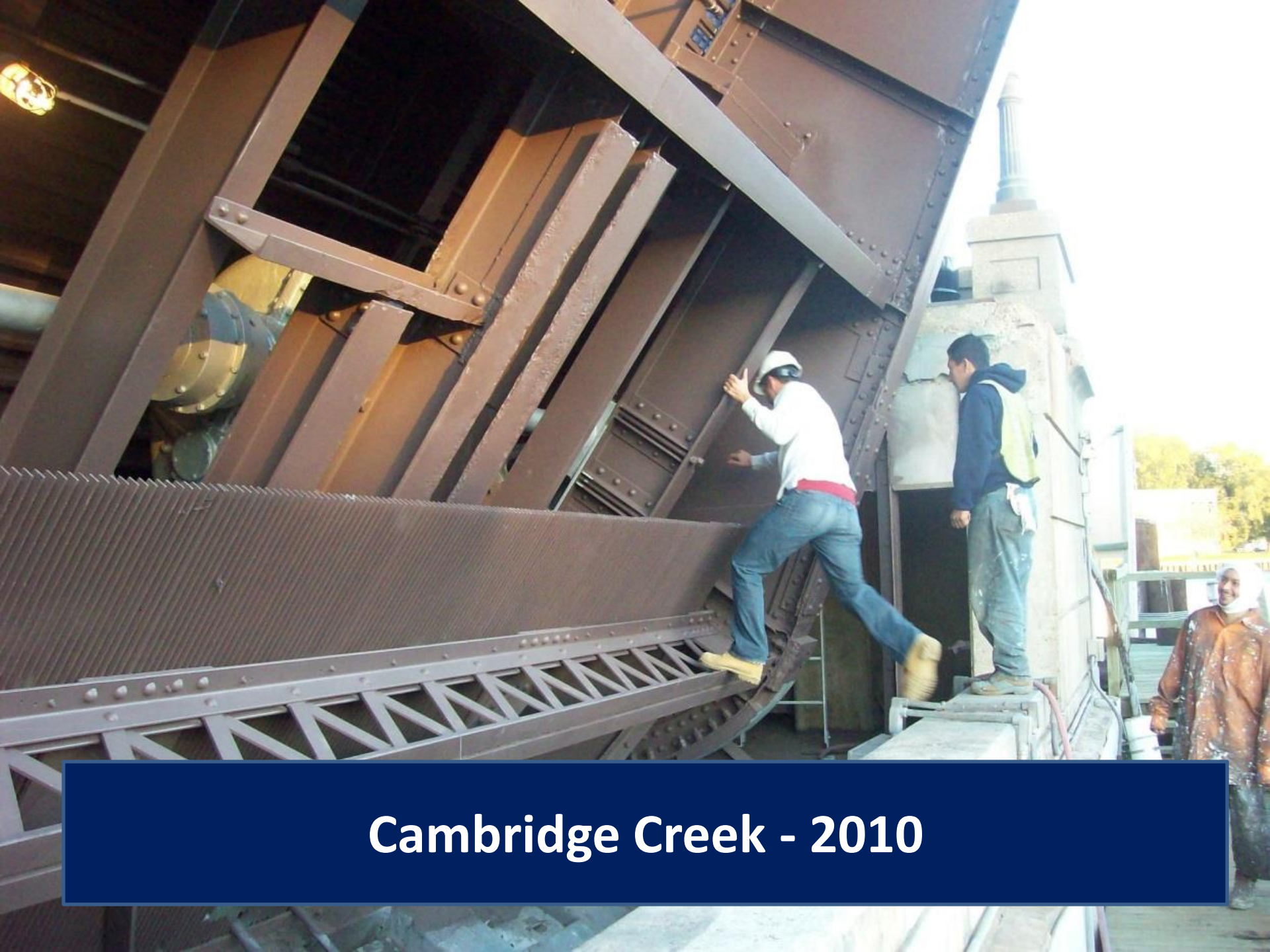
Cambridge Creek - 2010



Cambridge Creek - 2010



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Cambridge Creek - 2010



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Summary

- MD 173 closed at Stony Creek July 8 – August 12
- Project and detour information coming
- Non-closure work 7 a.m. to 3:30 p.m., M-F
- **Contractor will double or triple shift during closure**
- Starting mid-May
- Expect noise, delays, occasional single lane closures
- Work is not optional



Ft. Smallwood Road over Stony Creek

THANK YOU!

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